International application No.

		<u> </u>	-	PCT/AU2004/000329
A.	CLASSIFICATION OF SUBJECT MATTER		<u></u>	
Int. Cl. 7:	F16K 15/14, A63B 41/00, B60C 29/00			
According to	International Patent Classification (IPC) or to bot	h national alargisassis	4750	
B.	FIELDS SEARCHED	i national classification	and IPC	
Minimum doc	mentation searched (classification system followed by	1.10		
Documentation	searched other than minimum documentation to the ex	tent that such documents a	re included	in the fields searched
Electronic data DWPI: IPC	base consulted during the international search (name of F16K 15/14, 15/16, 15/20, 35/04 A63B 41/00 SLIT and the like	, , , , , , , , , , , , , , , , , , , ,		
C.	DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*				
	Citation of document, with indication, where app		t passages	Relevant to claim No.
X	US 4 327 912 A (HOFFMAN) 4 May 1982 Whole document			
				1, 2, 7, 26, 2
х	US 4 240 630 A (HOFFMAN) 23 Decembe Whole document	r 1980		
42	Whole document			1, 2, 7, 26, 2
v	US 2 830 610 A (CHUPA) 15 April 1958			
X	Whole document			1, 2, 7, 26, 2
	GB 426 786 B (BENSON) 10 April 1935			
X	Whole document			1, 2, 7, 26, 27
	US 3 861 416 A (WICHTERLE) 21 January	. 1075		1, 2, 7, 20, 27
X	Whole document	1973		4 - 15
	US 2 644 663 A (KLINGLER) 7 July 1953			4-13
X	Whole document	•		4 15
X Fu	rther documents are listed in the continuation	of Box C X	See pate	nt family annex
* Special ca	tegories of cited documents:	Of Box C		
not consider app	defining the general state of the art which is "T" late ered to be of particular relevance co	derlying the invention	cited to und	nal filing date or priority date and not in erstand the principle or theory
internation	all filing date or	earmor on correspond to HIAO	lve an invent	d invention cannot be considered novel ive step when the document is taken
or witch i	which may throw doubts on priority claim(s) "Y" do	cument of particular relevance	: the claimed	d invention connect he considered to
o" document	ation or other special reason (as specified) suc referring to an oral disclosure, use, exhibition	th documents, such combinati	ne document on being obv	is combined with one or more other rious to a person skilled in the art
or otner m P" document	eans "&" doc published prior to the international filing data	cument member of the same p	atent family	
Dut later tr	an the priority date claimed completion of the international search	Date of mailing of the !-	lamati1	
7 May 2004		Date of mailing of the in	emanonal s	
	address of the ISA/AU	Authorized officer		- 4 JUN 2004
BOX 200, W	ATENT OFFICE DDEN ACT 2606, AUSTRALIA ct@ipaustralia.gov.au	VENICATIVE		
csimile No. (0	(2) 6285 3929	VENKAT IYER Telephone No. (02) 62	02 21 44 1	
m PCT/ISA/21	0 (second sheet) (January 2004)	Telephone No : (02) 62	03 2144	

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C (Continuati	DOCER COLUMN	PCT/AU2004/	000329
	T. TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
	US 274 447 A (KENNISH) 20 March 1883	·	
X	Whole document		22 21
			23 - 31
	US 3 822 720 A (SOUZA) 9 July 1974		
X	Whole document		
			23 - 31
•	GB 2 094 443 A (BLACK AND DECKER) 15 September 1982		
X	Whole document		
			23 - 31
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Box	No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
Thi reas	s internations:	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.		Claims Nos.:
		because they relate to subject matter not required to be searched by this Authority, namely:
		·
2.	X	Claims Nos.: 3
		because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
		Claim 3 defines that the collapsible aperture of the valve element is configured to open on application of a
		predetermined axial force to the mounting member, however it is dependent upon Claim 1 which defines that the collapsible aperture is opened by the fluid pressure alone.
3.		Claims Nos.:
D		because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
		Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
		tional Searching Authority found multiple inventions in this international application, as follows:
S	SEE EX	KTRA SHEET
		As all required additional court for any of the state of
1.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.		As only some of the required additional search fees were timely paid by the applicant, this international search report
		covers only those claims for which fees were paid, specifically claims Nos.:
		•
4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is
	ш,	restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Rema	ark on i	Protest The additional search fees were accompanied by the applicant's protest.
		No protest accompanied the payment of additional search fees.

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- 1. Claims 1. It is considered that the feature of the valve element including a collapsible aperture which is opened by fluid pressure alone comprises a first "special technical feature".
- 2. Claims 8. It is considered that the valve element being connected to the mounting member via an isolation zone that reduces likelihood of the collapsible aperture moving to the open condition under impact comprises a second special technical feature.
- 3. Claim 23. It is considered that the valve element being configured to provide opening of the collapsible aperture on application of a predetermined force to the mounting member comprises a third special technical feature.

Since the above-mentioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.

Information on patent family members

International application No. PCT/AU2004/000329

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US	4327912						
OB	4327912	CA	1196353	DE	3149765	FR	2496469
		GB	2089664	JР	54139123	JР	57173072
		JР	62281978	US	4240630	ZA	8108287
US	3861416	DE	2304274	FR	2170044	GB	1372835
		ЈР	49110194				
US	2644663	NONE					
US	2830610	NONE					
GB	426786	NONE		· · · · · · · · · · · · · · · · · · ·			
US	274447	NONE					
GB	2094443	NONE			 		•
US	· 3822720·	NONE					

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX